

ON THE

ROBABLE CAUSES OF RABIES,

OR

MADNESS,

IN

THE DOG,

AND VARIOUS OTHER DOMESTIC ANIMALS.

lead at The London Veterinary Medical Society,
On Wednesday Evening, October 6, 1830.

BY HENRY WILLIAM DEWHURST, Esq.,

SURGEON-ACCOUCHEUR;

efessor of Midwifrry, Human and Comparative Anatomy; Fellow of he Westminster Medical, Royal Jennerian, and London Veterinary Medical Societies; Author of a Dictionary of Anatomy; Guide to hrenology; Essays on the Formation, Zoology, and Mind of Man; reatise on Medical Education; Discertation on the Component Parts f an Animal Body, &c.

"It is utterly impossible for a practitioner to adopt any cientific n of treatment for a disease, unless its causes are discovered."

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TO

JAMES SAMUEL LOMAX, Esq.,

OF

BROMPTON VILLA, OLD BROMPTON,

THE

FOLLOWING OBSERVATIONS

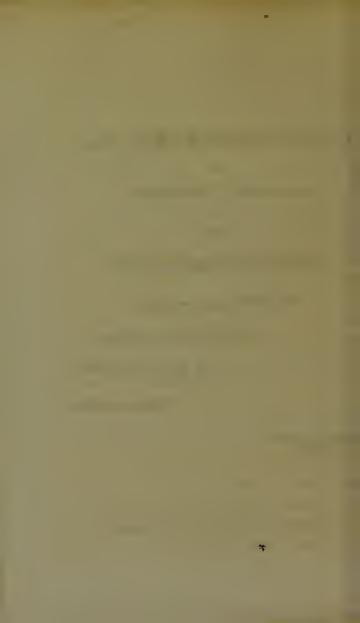
ARE RESPECTFULLY INSCRIBED,

AS A SMALL TOKEN OF ESTEEM,

BY HIS SINCERE FRIEND,

THE AUTHOR.

tosvenor Terrace, June 9, 1831.



PREFACE.

A desire to ascertain, if possible, the actual cause of Rabies Canina, produced the following paper, which I read at the opening of the last session of the London Veterinary Medical Society; and being still impressed with the necessity of the Profession obtaining this information, I now publish it, in order to obtain (if possible) the candid sentiments of my professional brethren respecting the accuracy of the hypothesis I entertain.

It was with pleasurable feelings that I perceived Mr. Alderman Wood introduce a Bill into the House of Commons, in order to prevent by proper means the spreading of Canine Madness;—its progress was impeded by his Majesty suddenly dissolving the late Parliament. I sincerely

hope, however, that the worthy Alderman will resume it during the ensuing session, and carry his philanthropic views into effect, and thus attempt the arrest of a disease which has proved the most dreadful scourge that ever afflicted man, as well as many of the most valuable of the inferior animals. Should he succeed in his benevolent intentions, he will justly be entitled to the everlasting gratitude of mankind.

OBSERVATIONS

ON

THE PROBABLE CAUSES OF RABIES,

IN THE

DOG AND OTHER ANIMALS.

LONDON VETERINARY MEDICAL SOCIETY, OCTOBER 6, 1830: JOHN FIELD, Esq., V.S., in the Chair.

MR. PRESIDENT AND GENTLEMEN:

When I consider the interesting and scientific manner, and the industry our worthy Secretary (Mr. Youatt) has exhibited for many years, in endeavouring to elucidate the pathology of Rabies Canina, together with the vast experience he has enjoyed, I cannot but confess I feel some diffidence in approaching a subject he has so ably handled, and which is of the utmost importance to mankind, inasmuch as, from its tremendous and horrifying effects, so many individuals have fallen victims to an aggravated species of the disease, which only exists in the human race, and is known by one great characteristic, viz. the unfortunate patient being liable to a great dread of water, nay, I may say of liquids generally: hence, this variety of the malady has justly been denominated by pathologists hydrophobia. I am aware of being unable to say, that I

have had much experience in the diseases in question; but, from my having conceived some novel views of the probable causes by which this disease may arise in the dog, or many of the lower animals, I must crave you kind indulgence to hear the few observations I deem it my duty to make, and trust they may be so fortunate as to be deemed worthy of your consideration; for I consider it out duty to promulgate any opinions we may form of the obscure causes of a disease, for the impartial diseussion of our practical professional brethren, and thus promote the grand cause in which we are engaged, that is to say, the cultivation and diffusion of sound anatomical and pathological veterinary knowledge.

The symptoms, appearances after death, and methods o treatment, have so fully been considered by Mr. Youatt that I do not feel myself justified in occupying your attention with a description of them in detail, particularly for the two following reasons:—First, they must, I conceive be known to you, from a perusal of that gentleman' pamphlet,* and which is highly deserving your attention Secondly, that I might perhaps be charged with plagiarism a circumstance I would wish to avoid; but I may cure sorily allude to them as I proceed.

Unfortunately, the cause of rabies is as yet too obscurr for us to found any solid theory on which we can ground any perfect plan of treatment. We cannot, from all our past information, but acknowledge that "its seat existing the respiratory system of nerves, this is proved by the symptoms which take place; that the morbid state of the

^{*} Entitled "Canine Madness, comprising the symptoms, promotem appearances, nature, origin, and preventive and curative trement of Rabies in the Dog and other domestic animals; by W. Youa. V.S. F.L.S. Longman, 1830."

system is created by an inoculation of the virus upon an abraded or wounded surface; and that this has its residence in the saliva of the animal by whom the disease was communicated."

Now, allowing all this, and which is fully borne out by past observations, here let me ask, does this point out the original cause of the malady? I say no; and with all due deference to Mr. Youatt, I have come to the following conclusions:—

First:—That sometimes it occurs spontaneously without inoculation.

Secondly:—That it may be confounded with inflammatory diseases, particularly of the viscera.

Thirdly:—That it may arise from a non-gratification of the animal passions, particularly sexual intercourse.

Our worthy Secretary inquires, in his Remarks, whether it ever occurs spontaneously: and if I recollect aright, he does not believe it does ever take place. But in this opinion I cannot coincide, for various reasons, which I shall mention, inasmuch as the relation of the following case may point out more information than bare unillustrated suppositions.

"An old lady kept for the preservation of her domicile, small terrier dog, who was placed in a coal cellar at the ottom of the house, in the area, where he was scarcely ever relieved from his imprisonment, for a period of nearly ive years. In all probability from some primary disorder of the digestive organs, severe symptoms arose, bearing troyed. On my ealling the next day, accidentally, to pay ter a visit (having been in the habit of attending her prosessionally), and being informed of what had occurred, requested leave to examine the dog. It was sent to

me, and was examined by myself and my obstetrical friend Dr. Heydeloff of Edinburgh, who at that period was in London, in the presence of several of my friends and pupils. when we found the intestinal, nay, to speak correctly, the whole alimentary canal, bearing all the appearances which are exhibited in cases of rabies: the dura mater and its continuation enveloping the medulla-spinalis were slightly vascular, and the whole substance of the brain was more loaded with blood than is usually perceived in a state of health. From the information I could gather respecting the previous symptoms, it confirms the view I have formed respecting its being a decided case of rabies; and this being the fact, I will ask, whether this is not a case of spontaneou disease?* and I am of opinion it is, and that it not un frequently occurs in those animals who have been confined under similar circumstances to the onc I have mentioned

I shall not waste your time with any further observations on this head, being assured that it is worthy o some consideration; but at once proceed to my secondivision, wherein I have stated that *rabies* has been confounded with numerous inflammatory diseases, particularly those of the abdominal viscera.

It is hardly necessary for me to remark, that in thi metropolis but little attention is paid by the middlin classes of society, who retain dogs in their service fe divers purposes; but unfortunately these animals are to often afflicted with disease, without the least attention

^{*} I have much pleasure in stating, that Messrs. Coleman, Brodi and Morgan, in their evidence before the Committee of the House Commons, on Alderman Wood's Bill for the prevention of the spreating of Canine Madness, entirely coincide with me in opinion respectite the occasional spontaneous origin of rabies—a fact I was not acquainte with when I first entertained this opinion.—Vide Report, and Veter narian for November 1830.

cing paid to them by their owners, or any remedies dministered for their relief. This arises from one or two auses, viz. ignorance or total neglect, or perhaps both.

From this circumstance, there is not the least doubt hat numcrous organic changes occur, with their coresponding train of symptoms, which in their aggravated orm are too often mistaken by ignorant persons for the alady in question. I have frequently found, upon opening the bodies of dogs which have been brought to me by the price of the pupils for dissection, and which had been reviously considered in perfect health, that the mucous tembrane of the intestinal canal was more or less insumed, the vessels of which were sometimes loaded with ark venous blood, appearing as if painted, and occasionally the seen large patches of ulceration.

I now call your attention to the following case :-

An eminent medical practitioner,* who then resided the neighbourhood of Walworth, being what is termed ther a sporting character, kept a dog for the double urpose of guarding the house and becoming the commion of his gun during the shooting season; and equently the animal was allowed to roam about the idds in the neighbourhood. One day, on the return of y friend from his professional avocations, he was inseed by his domestics that his dog was in a state of adness, having been hunted home by numerous persons med with pitchforks, &c. and was unapproachable, all e domestics being afraid to go near him on account of s fury. On going into the garden where the dog had s kennel, my friend found his eyes extremely bright and arkling, his mouth foaming with saliva; he was lying in

This gentleman is now dead, it was the talented late James Lam-

the corner of his kennel, and extremely spiteful to all whe came near him: these were the most prominent among other symptoms. My friend went into his surgery, and 3 prepared a ball containing one drachm of calomel, an gave it to the animal: three hours afterwards four ounce of sulphate of magnesia, dissolved in some outnical grue a was given to the unfortunate creature, and notwithstand ing several copious stools had taken place, the saline doe of was repeated in three hours after the first. By this time to great weariness was produced, and doses of gruch were fre quently administered: the next day similar food, togethe with small doses of sulphate of magnesia, of about or ounce twice a day for two days, were given to him, whe it was left off, and in a short time the dog was entire well. Now, in this case, there was not the least dou. that it was an aggravated state of intestinal inflammatio which had been mistaken by a timid populace, and event by a truly scientific medical practitioner, for madness There is not the least doubt that numerous cas of inflammatory and neglected maladies may be confound with this disease, or, what is not unlikely, it may degen and rate into perfect rabies; and I am further of opinion, the it not unfrequently occurs from the circumstances I ha already mentioned. Besides, there is not the least dot that if a case was carefully watched, the ultimate sym toms would occasionally be found to bear some analogy those of pure rabies, prior to mortification commencing.

The last head to which I shall draw your attention the present occasion, is one which I believe has not gaged the attention either of human or veterinary path logists, but which is one highly deserving of their attenti

We well know that throughout all classes of anim and plants, nay, in fact, all animated bodies possess per

ar organs necessary for the procreation of their species, ith their corresponding series of functions.

At a certain period peculiar to every animal, * certain sires occur at stated seasons, wherein their sexual pronsities must be gratified, and in some orders this takes ce with the most unbounded fury; and in those cases here it happens that there are more males than females, lent and frequently fatal conflicts ensue; and there is t the least doubt that, in such as cannot (either from nt of opportunity or confinement) gratify the sexual ssions, rabies, or a disease approaching to it, actually es place, and more or less becomes aggravated: this is ted to have occurred in the wolves and other animals the Continent, and in the menageries, where animals preserved and exhibited in a state directly contrary to habits, climate, and freedom they enjoyed in their rinal states; where, from these circumstances, this pasn is unable to be gratified, as was intended by the great thor of nature, pure madness breaks out, and is only to restrained in its intensity by means of violent purgas and similar plans of treatment. A well known innce of this occurred in the celebrated elephant at Cross's nageric, at the late Exeter 'Change, where, on account he animal's unrestrained fury, he was compelled to be troyed; and you also recollect, that at certain periods, In the sexual appetite became excited, the vascular em was compelled to be lowered by means of strong es of saline medicine; and thus I am borne out in the position I have advanced; and there is not the least

mean, of course, the lower animals; for in the human female process of impregnation is capable of being effected at all periods to year.

doubt that, had the dissection been minutely made with this idea in view, the whole vascular and nervous system would have been under great excitement, differing exceedingly from what would be perceived under other circumstances. As far as my own observations have gone, have rarely seen rabies occurring in the bitch.* but almoinvariably in the dog. If other observers support the remark, can I not justly inquire, if it is not probable that this may be one of the exciting causes of rabies?

These, Mr. President, are the three points to which wish to eall the particular attention of yourself and the members of this Society, inasmuch as I conceive that a fund deliberate discussion on this important subject matend, in the end, to afford some accurate information as the proximate cause of the pathology of rabies in the different orders of animals, and thus be the means of ultimately leading to some sound plan of treatment to adopted with both man and animals, and which, in the rapid strides that science is daily making in all its branche. I do not despair of, although I may not live to see it

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^{*} On the evening I read this paper, on my road to the Society was informed by my valued and scientific friend, Mr. James Brog of Camden Town, that he knew a bitch who at certain periods of year was almost in a state of furor, owing to being deprived of sex intercourse with the male; and as soon as any symptoms Indicat of this condition appeared, her master purged her well with sa medicines, and thus lowered the excitement.

[†] Mr. Brodie, in his evidence before the House of Commons Comittee, states that "whoever discovered a cure for hydrophobia would tain fame and fortune by his discovery." Now should such be fortuna made by any individual, even though he be an unprofessional man, I cerely hope he will not be hunted down by the profession for benefit his fellow creatures, as was the case with a truly worthy, talented, honourable man, who having been successful in the relief of diseamany cases, has not only been the subject of two base prosecutions,

My object in this paper is not to communicate information (for that I confess I am unable to do, when compared to that which has been published by Mr. Youatt), but to elicit a discussion from men who (from their practising a distinct though equally important branch of the healing art to my own) have it more in their power than myself of instituting inquiries, whether or not the suppositions I have advanced in the course of these observations are correct or incorrect, and which I must observe can only be truly ascertained by the lynx-eyed observations of a scientific practitioner steadily devoted to his profession, and embracing every object that may occur in the practice of himself or his friends; and as numerous observations must occur in equine and canine pathology, I would take the liberty of suggesting that more attention should be paid to an examination of the brain, nervous, and vascular systems, than is generally done by veterinarians. I have now brought these remarks to a conclusion, and have to apologize, Mr. President, for the hasty and crude manner in which they have been put together; but not being aware it would fall so soon to my lot in having the honour to address you, I considered it my duty to offer them in their present form, rather than create a disappointment.

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CULTURE

For a report of the excellent discussion that followed the perusal of the preceding paper, the reader is referred to that excellent journal, the "Veterinarian," for Nowember, 1830.

through a venal hireling press, been disgracefully held up to scorn, obloquy, and ridicule; the public, however, now have their eyes open, and I am happy to say that the prejudice that was raised is now gradually dispersing, and many of those who were formerly against him, now believe him a truly persecuted and innocent man; and to the profession, I advise them to recollect, that " he who is without sin, should cast the first stone."

Observations on the imperfect Development of the Skeleton of Man, and particularly of the Cranium. By J. F. Lobstein. Translated from his Traité d'Anatomie Pathologique, by H. W. Dewhurst, Esq. Surgeon, &c.

(Extracted from the Gazette of Health.)

THERE are numerous organs in the human body which remain stationary during their morbid progress, whilst the surrounding parts augment considerably in size, without our being enabled to perceive in them the characteristic symptoms of atrophy by which they are properly denominated.

To call the reader's attention to some striking examples, without reference to any one particular organ, we shall proceed to examine the several portions of the skeleton, comprising the head, chest, pelvis, and extremities.

We not unfrequently meet with the crania of some individuals which are considerably smaller than is found, under ordinary circumstanees, in the greater number of persons. Notwithstanding, the thickness of the two tables of which it is composed are of the usual dimensions. From this it appears that there must have been originally some obstacle in the growth and general development of this part of the osseous system. Lobstein is of opinion, that this fault o formation in the cranium may have considerable influence on the functions of the cerebral viseus within. Reflection which experience confirms, clearly proves that the contracted sphere of the skull oftentimes coincides with a derangement of the mental faculties, or more properly speaking, creating a nullity of the intellectual functions.

Pincl * mentions a case of a girl of eleven years of age, the had been an idiot, in the most deplorable state, from er birth; her skull was one of the most remarkable in its onformation, in the diminutiveness of its dimensions. Tobstein examined a skull, preserved in the Museum of he Faculty of Medicine at Paris, which has an extreme atness of forchead,† and a remarkable decrease in all its iameters; the superior part of the orbit is extremely holowed in the interior of the skull, which was on a level ith the cribriform process of the ethmoidal bone, and ansequently occasioning a diminution of the facial angle, ving this skull a considerable resemblance to that of a lonkey.

It is also the imperfect development of the skull, that eates a flattened shape of its various regions; as just ated, in the preceding remarks, that the flatness of the rehead ably accords with the want of intelligence which as so peculiar in the idiots above described. Lobstein presents several engravings, from crania, in the same colction, whose heads are completely flattened in the frontal gion; and of one in particular, the individual was of a ost detestable character.

The narrowness of the chest and pelvis arise likewise om an imperfect development of the particles of osseous atter; and the effects of this peculiar kind of conformator practice well known, inasmuch as the suspension of

^{*} Traité de la Manie, 2e. edit. pp. 182-475.

In all persons remarkable for a deficiency of intellect we generally d this species of forehead; in those having one finely elevated, or panding, the individual is noted for the brilliancy of his mental and ellectual attainments.—D.

These remarks form excellent illustrations in confirmation of the autiful and accurate science of phrenology.—D.

the functions of the containing organs oftentimes takes place, and in the latter organ, difficult parturition is generally the consequence; and thus, from an imperfect development of these organs, experience proves to us, that life is frequently shortened.

The growth of the extremities is frequently suspended from the same species of the imperfect osseous development, without a stoppage of the nutritive act, as is perceived by a mere reference to the state of those fœtuses, who, from their birth, are placed within the denomination of dwarfs; and this shortness of limb is found to be alike in the superior as in the inferior extremities.

FINIS.

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